

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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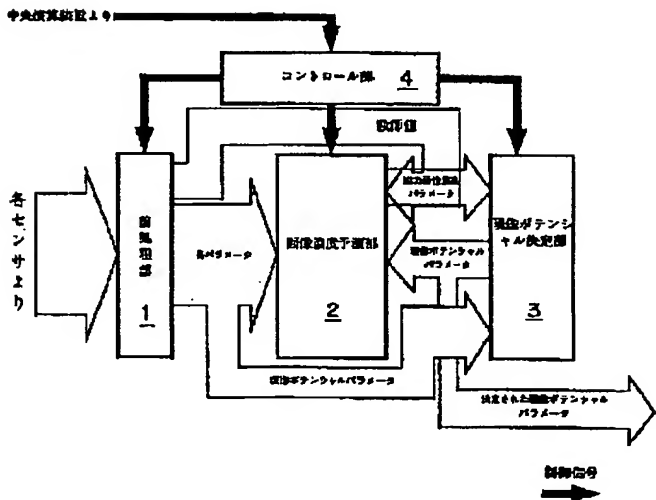
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APPLICATION NUMBER : 03316807

APPLICANT : RICOH CO LTD;

INVENTOR : KANEYA MITSUHISA;

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TITLE : ELECTROPHOTOGRAPHIC PROCESS  
CONTROLLER



ABSTRACT : PURPOSE: To provide the controller for controlling the electrophotographic process of an image forming device.

CONSTITUTION: The controller has means (sensor, etc.) for measuring the internal/external states of the device, such as toner adhesion on the surface of a photosensitive body, temp., humidity and time, a means 1 for converting the information obtd. from the measuring means to parameters indicating the state of the device, a means 2 for receiving the parameters indicating the internal/ external states of the device obtd. from the measuring means as inputs and for estimating the densities of output images by using a neural network in which the characteristics of the system of the image forming device (developing section) are previously learned with the parameters previously obtd. by experiment, etc., as teacher values, and a means 3 for calculating a development potential from the densities of the output images estimated by the neural network. The controller has a development potential determining device which determines the optimum development potential without repeating the process of measuring the toner deposition, etc., by actually forming the electrostatic latent image to be a reference on the photosensitive body.

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